



### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Milan Kokta, et al.

Title:

SPINEL ARTICLES AND METHODS FOR FORMING SAME

Application No.: 10/669,141

Filed:

September 23, 2003

Examiner:

Stephen J. Stein

Group Art Unit: 1775

Atty. Docket No.: 1035-BI4282

MS AF COMMISSIONER FOR PATENTS PO Box 1450 Alexandria, VA 22313-1450

#### INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the undersigned brings the patents, publications, applications or other information identified in the attached:

$\boxtimes$	Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449
	Other: n/a

to the Examiner's attention in the above-identified application. Citation of such information shall not be construed as:

- an admission that the information necessarily is, or corresponds to, prior art with 1. respect to the instant invention;
- a representation that a search has been made, other than as described below; or 2.
- an admission that the information cited herein is, or is considered to be, material 3. to patentability as defined in § 1.56(b).

For each item of information listed that is not in the English language, the undersigned has provided a concise explanation of the relevance, such as through (i) an English language abstract, (ii) an English language equivalent application, (iii) reference to discussion in the application, or (iv) if cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action that indicates the degree of relevance found by the foreign office.

CERTIFICATE OF	TRANSMISSION/MAILING
I hereby certify that this correspondence is be with the United States Postal Service with su Mail, in an envelope addressed to the Commi	ring facsimile transmitted to the USPTO or deposited fficient postage as either First Class Mail or Express issioner for Patents on 11265.
Elise K. Dougherty Typed or Printed Name	P.K. Danchout Signature

### STATEMENT UNDER 37 C.F.R. § 1.704(d)

If the May 29, 2000	above-identified application is an original application filed on or after ):
	each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement.
	FEES DUE
This I	nformation Disclosure Statement is being filed:
	within three months of the filing date of a national application or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.
	before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.
	during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement.
	during the period specified in § 1.97(c). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal.
	during the period specified in § 1.97(d). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal. Additionally, each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement.

Should any PTO fees be necessary for entry of this Information Disclosure Statement, the undersigned hereby authorizes the Commissioner to charge Deposit Account <u>50-2469</u>.

Respectfully submitted,

Jefffelf S. Abel, Reg. No.: 36,079

Attorney for Applicant(s)

TOLER, LARSON & ABEL, L.L.P.

5000 Plaza On The Lake, Suite 265

Austin, Texas 78746

(512) 327-5515 (phone)

(512) 327-5452 (fax)

### LIST OF RELATED APPLICATIONS

Application No.	Filing Date	Applicant(s)	Docket No.
11/065,397	02/24/05	Tanikella, et al.	1075-BI4345

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

TRACES Lote for form 1449/PTO

Sheet 1

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 13

 Complete if Known

 Application Number
 10/669,141

 Filing Date
 09/23/2003

 First Named Inventor
 Milan R. Kokta

 Art Unit
 1775

 Examiner Name
 Stephen J. Stein

 Attorney Docket Number
 1075-BI4282

	U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	A1	US- 3,753,775	08/21/1973	Robinson et al.	3 777	
	B1	US- 3,964,942	06/22/1976	Berkenblit et al.		
	Cl	US- 4,649,070	03/10/1987	Kondo et al.		
	DI	<sup>US-</sup> 4,657,754	04/14/1987	Bauer et al.		
	El	<sup>US-</sup> 5,643,044	07/01/1997	Lund		
	F1	US- 5,742,026	04/21/1998	Dickinson, Jr. et al.		
	G1	US- 5,989,301	11/23/1999	Laconto, Sr. et al.		
	HI	US- 6,048,577	04/11/2000	Garg		
	I1	US- 6,238,450 B1	05/29/2001	Garg et al.		
	<b>J</b> 1	<sup>US-</sup> 6,258,137 B1	07/10/2001	Garg et al.		
	K1	<sup>US-</sup> 6,265,089 B1	07/24/2001	Fatemi et al.		
	L1	<sup>US-</sup> 6,364,920 B1	04/02/2002	Garg et al.		
	M1	<sup>US-</sup> 6,391,072 B1	05/21/2002	Garg		
	NI	<sup>US-</sup> 6,406,769 B1	06/18/2002	Delabre		
	01	US- 6,418,921 B1	07/16/2002	Schmid et al.		
,	P1	US- 2001/0026950 A1	10/04/2001	Sunakawa et al.		
	Q1	US- 2002/0028314 A1	03/07/2002	Tischler et al.		
	R1	<sup>US-</sup> 2002/0030194 A1	03/14/2002	Camras et al.		
	S1	<sup>US-</sup> 2003/0190770 A1	10/09/2003	Yeom et al.		

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1		Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>
	T1	CN 1291795	04/18/2001	Guanglei Sci & Tech Co. Ltd.	English Abstract Only	
	U1	CN 1379484	11/13/2002	Univ Qinghua	English Abstract Only	
	VI	CN 1469459	01/21/2004	Fudi Elect. Mat. Co. Ltd.	English Abstract Only	
	W1	CN 1476046	02/18/2004	Shanghai Prec. Opt. Instr	English Abstract Only	
	X1	CN 1476047	02/18/2004	Shanghai Prec. Opt. Instr	English Abstract Only	
	Y1	EP 997445	05/03/2000	Corning Inc.	English Abstract Only	

Examiner		 Date	
Signature		Considered	
Oignature		Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.** 

Approved for use through 07/31/2006, OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE perwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PASSES Aute for form 1449/PTO

Sheet 2

### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 13

Complete if Known					
Application Number	10/669,141				
Filing Date	09/23/2003				
First Named Inventor	Milan R. Kokta				
Art Unit	1775				
Examiner Name	Stephen J. Stein				
Attorney Docket Number	1075-BI4282				

			U. S. PATENT	T DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.0	Number-Kind Code <sup>2 (f known)</sup>	11/20/2002	111	- Igaico Appoar
	A2	US- 2003/0213950 A1	11/20/2003	Hwang	
	B2	<sup>US-</sup> 2004/0063236 A1	04/01/2004	Kwak et al.	
	C2	US- 2004/0089220 A1	05/13/2004	Kokta et al.	
	D2	US- 3,808,065	04/30/1974	Robinson et al.	
	E2	<sup>US-</sup> 3,898,051	08/05/1975	Schmid	
	F2	US- 4,347,210	08/31/1982	Maguire, et al.	
	G2	US- 5,968,267	10/19/1999	Li	
	H2	US- RE38,489 E	04/26/2004	Thony et al.	
	I2	<sup>US-</sup> 6,846,434 B1	01/25/2005	Akselrod	
	J2	US-			
	K2	US-			
	L2	US-			
	M2	US-			
	N2	US-			
	O2	US-			
	P2	US-			
	Q2	US-			
	R2	US-			
	S2	US-			

FOREIGN PATENT DOCUMENTS								
	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages			
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>		
	T2	EP 1298709	04/02/2003	NGK Insulators Ltd.	English Abstract Only			
	U2	EP 1394867	03/03/2004	Samsung Elect. Co. Ltd.	English Abstract Only			
	V2	JP 53-043481	04/19/1978	Matsushita Elec Ind. Co. Ltd.	English Abstract Only			
	W2	JP 79-026873	09/06/1979	Nippon Elect. Co.	English Abstract Only			
	X2	JP 58-090736	05/30/1983	Tokyo Shibaura Elect. Co	English Abstract Only			
	Y2	JP 61-142759	06/30/1986	NGK Spark Plug Co. Ltd.	English Abstract Only			

Examiner	Date	
Signature	Considered	
•		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

NOV 0 4 2005

Sheet 3

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE of the Vaperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

RADEMPHO 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 13

Complete if Known			
Application Number	10/669,141	-	
Filing Date	09/23/2003		
First Named Inventor	Milan R. Kokta		
Art Unit	1775		
Examiner Name	Stephen J. Stein		
Attorney Docket Number	1075-BI4282		

	U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
	A3	US-					
	B3	US-					
	C3	US-					
	D3	US-			·		
	E3	US-					
	F3	US-					
	G3	US-					
	Н3	US-					
	I3	US-					
	J3	US- ,					
	K3	US-					
	L3	US-					
	M3	US-					
	N3	US-					
	O3	US-					
	P3	US-					
	Q3	US-					
	R3	US-					
	S3	US-					

		FORE	IGN PATENT DOC	UMENTS		
Examiner Cite Initials* No.		Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	1	Or Relevant Figures Appear	Τ <sup>6</sup>
	T3	JP 62-123059	06/04/1987	Narumi Seito KK	English Abstract Only	
	U3	JP 7-235692	09/05/1995	Sony Corp.	English Abstract Only	
	V3	JP 8-040797	02/13/1996	Kyocera Corp.	English Abstract Only	
	W3	JP 8-083802	03/26/1996	Shingijutsu Kigyodan	English Abstract Only	
	X3	JP 8-095233	04/12/1996	Tono Seiki YG	English Abstract Only	
	Y3	JP 9-129651	05/16/1997	Hewlett-Packard Co.	English Abstract Only	

Examiner	Date	
Signature	Considered	
	00.000	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

NOV 0 4 2005

PTO/SB/08A (07-05) Approved for use through 07/31/2006. OMB 0651-0031

10/669,141

09/23/2003

Milan R. Kokta

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Number

First Named Inventor

Filing Date

Under the Reference Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

INFORMATION DISCLOSURE

STATEMENT BY APPLICANT
(Use as many sheets as necessary)

Art Unit 1775

Examiner Name Stephen J. Stein

Attorney Docket Number 1075-BI4282

		··· ***	U. S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (# known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A4	US-			
	B4	US-			
	C4	US-			
	D4	US-			
	E4	US-			
	F4	US-			
	G4	US-			
	H4	US-			
•	I4	US-			
	J4	US-			
	K4	US-		·	
	L4	US-			
	M4	US-			
	N4	US-			
	O4	US-			
	P4	US-			
	Q4	US-			
	R4	US-			
	S4	US-		,	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1		Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T
	T4	JP 9-129928	05/16/1997	Toshiba KK	English Abstract Only	
	U4	JP 11-195813	07/21/1999	Toshiba Denshi Eng. KK	English Abstract Only	
	V4	JP 11-235659	08/31/1999	Ricoh KK	English Abstract Only	
	W4	JP 11-274559	10/08/1999	Sanyo Elect. Co. Ltd.	English Abstract Only	
	X4	JP 2000-228367	08/15/2000	Samsung Elect. Co. Ltd.	English Abstract Only	
	Y4	JP 2000-331940	11/30/2000	Sony Corp.	English Abstract Only	

Examiner	· · · · · · · · · · · · · · · · · · ·	Date	
Signature		Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND**TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A (07-05) Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

PADEMARIULE for form 1449/PTO

### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 5 of 13

erwork Reduction Act of 1995, no persons are	required to respond to a collection of informa	tion unless it contains a valid OMB	control number		
form 1449/PTO		Complete if Known			
Application Number 10/669,141		10/669,141			
MATION DISCLOSUR	Filing Date	09/23/2003			
	First Named inventor	Milan R. Kokta			
EMENT BY APPLICAN	Art Unit	1775			
Use as many sheets as necessary)	Examiner Name	Stephen J. Stein			
of 13	Attorney Docket Number	1075-BI4282			

			U. S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	<u> </u>	Number-Kind Code <sup>2 (# known)</sup> US-			Figures Appear
	A5				
	B5	US-			
	C5	US-			
	D5	US-			
	E5	US-			
	F5	US-			
	G5	US-			
	Н5	US-			
	I5	US-			
	J5	US-			
	K5	US-			
	L5	US-			
	M5	US-			
	N5	US-			
	O5	US-			
•	P5	US-			
	Q5	US-			
	R5	US-			·
	S5	US-			

		FORE	IGN PATENT DOC	JMENTS	· · · · · · · · · · · · · · · · · · ·	
Examiner Cite Initials* No.1		Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>
	T5	JP 2001-010898	01/16/2001	NEC Corp.	English Abstract Only	
	U5	JP 2001-198808	07/24/2001	Morioka Seiko Kogyo KK	English Abstract Only	
	V5	JP 2001-220295	08/14/2001	Namiki Seimitsu Hoseki KK	English Abstract Only	
	W5	JP 2001-253800	09/18/2001	Namiki Seimitsu Hoseki KK	English Abstract Only	
	X5	JP 2002-012856	01/15/2002	Neos KK	English Abstract Only	
	Y5	JP 2002-050577	02/15/2002	Namiki Seimitsu Hoseki KK	English Abstract Only	

Examiner	Date	
Signature	Considered	
,		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

erwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Number

te for form 1449/PTO

6

Sheet

### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 13

	15.51.55.55.55
Filing Date	09/23/2003
First Named Inventor	Milan R. Kokta
Art Unit	1775
Examiner Name	Stephen J. Stein

10/669.141

Attorney Docket Number 1075-BI4282

Complete if Known

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A.C.	Number-Kind Code <sup>2 (f known)</sup> US-			rigures Appear
	A6				
	B6	US-			
	C6	US-			
	D6	US-			
	E6	US-			
	F6	US-			
	G6	US-			
_	Н6	US-			
	<b>I</b> 6	US-			
	J6	US-			
	K6	US-			
-	L6	US-			
	M6	US-			
	N6	US-			
	O6	US-			
	P6	US-			
	Q6	US-			
	R6	US-			
	S6	US-			

		FOREIG	N PATENT DOC	JMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	<b>-</b> 6
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-TTTT		Or Relevant Figures Appear	Ľ
	T6	JP 2002-158377	05/31/2002	Matsushita Denki Sangyo KK	English Abstract Only	
	U6	JP 2002-255694	09/11/2002	Kyocera Corp.	English Abstract Only	
	V6	JP 2002-353425	12/06/2002	Kyocera Corp.	English Abstract Only	
	W6	JP 2003-045829	02/14/2003	Hitachi Chem Co. Ltd.	English Abstract Only	
-	X6	JP 2003-113000	04/18/2003	Hitachi Cable Ltd.	English Abstract Only	
	Y6	JP 2003-124151	04/25/2003	Disco KK	English Abstract Only	

Examiner	Date	
Signature	Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND** TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

PADEMAN THE PROPERTY OF THE PADEMAN THE PA Paperwork Reduction Act of 1995, no persons are required to response

Substitute for form 1449/PTO

17

Sheet

#### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 13

Complete if Known				
Application Number	10/669,141			
Filing Date	09/23/2003			
First Named Inventor	Milan R. Kokta			
Art Unit	1775			
Examiner Name	Stephen J. Stein			
Attorney Docket Number	1075-BI4282			

			U. S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (# known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A7	US-			
	B7	US-		<del></del>	
-	C7	US-			
	D7	US-			
	E7	US-			
	F7	US-			
	G7	US-			
	H7	US-			
	17	US-			
	J7	US-			
	K7	US-			
	L7	US-			
	M7	US-			
. •	N7	US-			
	O7	US-			
	P7	US-			
	Q7	US-			
	R7	US-			
	S7	US-			

		FORE	<b>IGN PATENT DOC</b>	JMENTS		
Examiner Initials*	Cite No.1		Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>
	T7	JP 2003-165042	06/10/2003	Okamoto Kosaku Kikai Seisakusho KK	English Abstract Only	
	U7	JP 2003-273022	09/26/2003	Namiki Seimitsu Hoseki KK	English Abstract Only	
	V7	JP 2003-320521	11/11/2003	Tokyo Tungsten KK	English Abstract Only	
	W7	JP 2003-334754	11/25/2003	Nippon Microcoating KK	English Abstract Only	
·	X7	JP 2003-338638	11/28/2003	Nichia Kagaku Kogyo KK	English Abstract Only	
	Y7	JP 2004-006867	01/08/2004	Matsushita Denki Sagyo KK	English Abstract Only	

Examiner	 Date	
Signature	Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND**TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A (07-05) Approved for use through 07/31/2006. OMB 0651-0031

10/669,141

09/23/2003

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Number

First Named Inventor

work Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Under that Complete if Known

Filing Date

Substitute for form 1449/PTO

NOV 0 4 2005

### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Milan R. Kokta Art Unit 1775 (Use as many sheets as necessary) **Examiner Name** Stephen J. Stein Sheet |8 of 13 Attorney Docket Number 1075-BI4282

			U. S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (# known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A8	US-			3
	B8	US-			
	C8	US-			
	D8	US-			
	E8	US-			
	F8	US-			
	G8	US-			
	H8	US-			
	18	US-			
	J8	US-			
	K8	US-			
	L8	US-			
	M8	US-			
	N8	US-			
	O8	US-			
	P8	US-			
	Q8	US-			
	R8	US-			
	S8	US-			

		FORE	IGN PATENT DOCI	JMENTS		
Examiner Initials*	Cite No.1		Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T
	T8	JP 2004-014691	01/15/2004	Mitsubishi Gas Chem Co Inc.	English Abstract Only	
	U8	JP 2004-140394	05/13/2004	Nissan Chem Ind. Ltd.	English Abstract Only	
	V8	KR 2002-043128	06/08/2002	Ulsan College	English Abstract Only	
	W8	SU 1781271	12/15/1992	Krasy Poly (Kypo)	English Abstract Only	
	X8	TW 550836	09/01/2003	Ind. Tech. Res. Inst.	English Abstract Only	
	Y8	WO 2000/68332	11/16/2000	MPM Ltd.	English Abstract Only	

Examiner	Date	
Signature	Considered	
Signature	Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). Japanese patent documents, the indication of the year of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

NOV 0 4 2005

Sheet 9

PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

AODAS Situte for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 13

Complete if Known					
Application Number	10/669,141				
Filing Date	09/23/2003				
First Named Inventor	Milan R. Kokta				
Art Unit	1775				
Examiner Name	Stephen J. Stein	_			
Attorney Docket Number	1075-BI4282				

			U. S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A9	Number-Kind Code <sup>2 (# known)</sup> US-	<del>                                     </del>		Tigures / ppedi
	<del> </del>	US-			
	B9				
	C9	ÚS-			
	D9	US-			
	E9	US-			
	F9	US-			
	G9	US-			
	Н9	US-			
	19	US-		· · · · · · · · · · · · · · · · · · ·	
	J9	US-			
	K9	US-			***
	L9	US-		• • •,	
	M9	US-			
-	N9	US-			
	09	US-			
	P9	US-			
	Q9	US-			
	R9	US-		, , , , , , , , , , , , , , , , , , ,	
	S9	US-			

		FORE	IGN PATENT DOC	JMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>
	T9	WO 2002/92674	11/21/2002	US Sec of Navy	English Abstract Only	
	U9	WO 2004/33769	04/22/2004	Unisearch Ltd.	English Abstract Only	
	V9	·			English Abstract Only	
	W9				English Abstract Only	
	X9				English Abstract Only	
	Y9				English Abstract Only	

Examiner	Date	
Signature	Considere	ed
•		·

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (07-05) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE perwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known m 1449/PTO **Application Number** 10/669,141 **Filing Date** INFORMATION DISCLOSURE 09/23/2003 STATEMENT BY APPLICANT **First Named Inventor** Milan R. Kokta Art Unit 1775 (Use as many sheets as necessary) **Examiner Name** Stephen J. Stein

Attorney Docket Number

1075-BI4282

13

Sheet

10

Examiner	Cite								
Initials*	No. <sup>1</sup>	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>						
	A10	Aeschlimann, R. et al., "The Chemical Polishing of Magnesium Aluminate Spinel in Pyrophosphoric Acid", MAT. RES. BULL., Vol. 5, pgs 167-172, 1970.							
	B10	Dwikusuma, F., "Study on Sapphire Surface Preparation for III-Nitride Heteroepitaxial Growth by Chemical Treatments", JOURNAL FOR ELECTROCHEMICAL SOC., Nov. 2002, 30 pgs.							
	C10	Kim, S. et al., "Stress Relaxation in Thick-Film GaN Grown by Hydride Vapor Phase Epitaxy on Sapphire and Spinel Substrates as Studied by Photoluminescence and Raman Spectroscopy", J. OF THE KR PHYS SOC., Vol. 34, No. 2, Feb. 1999, pgs 163-167.							
	D10	Kurobe, Toshiji, et al., "Magnetic Field-Assisted Lapping", BULL. JAPAN SOC. OF PREC. ENGG., Vol. 20, No. 1, March 1986, pgs 49-51.							
	E10	Libowitzky, E., "Optical Anisotropy in the Spinel Group: a Polishing Effect", EUR. J. MINERAL., Vol. 6, 1994, pgs. 187-194.							
	F10	Reisman, A., et al., "The Chemical Polishing of Sapphire and MgAl Spinel", J. ELECTROCHEM. SOC.: SOLID STATE SCIENCE, Vol. 118, No. 10, October 1971, pgs 1653-1657.							
	G10	Richter, F., et al., "Herstellung und Aurichtung Von MgAl-Spinell-Substraten für die Halbleiterepitaxie", KRISTALL UND TECHNIK, Vol. 10, No. 3, 1975, pgs 33-348.							
	H10	Robinson, P., et al., "The Chemical Polishing of Sapphire and Spinel", RCA REVIEW, Vol. 34, December 1973, pgs 616-629.							
	110	Roy, D., et al., "Spinel, Where did it go?", SPIE Vol. 3134, pgs 307-316.							
	J10	Wang, C., et al., "Growth and Characterization of Spinel Single Crystal for Substrate Use in Integrated Electronics", J. APPLIED PHYSICS, Vol. 40, No. 9, August 1969, pgs 3433-3444.							

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (07-05) Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

	s for form 1449/PTO			re required to respond to a collection of information unless it contains a valid OMB control number.  Complete if Known		
- Carrier	10/10/11/17/5/11/TO			Application Number	10/669,141	
INF	ORMATION	I DIS	CLOSURE	Filing Date	09/23/2003	
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Milan R. Kokta	
	// loo oo many aha			Art Unit	1775	
(Use as many sheets as necessary)				Examiner Name	Stephen J. Stein	
Sheet	11	of	13	Attorney Docket Number	1075-BI4282	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	A11	Yanina, S., et al., "Moving Steps and Crystal Defects on Spinel Surfaces", MAT. RES. SOC. SYMP., Vol. 620, 2000, pgs M9.4.1-M9.4.6.	
	B11	Byun, D., et al., "Reactive ion (N2+) Beam Pretreatment of Sapphire for GaN Growth", THIN SOLID FILMS, Vol. 326, 1998, pgs 151-153.	
	C11	Byun, D., et al., "New Pretreatment Method of Sapphire for GaN Deposition", PHYS. STAT. SOL., Vol. 176, 1999, pgs 643-648.	
	D11	Sung, Y., et al., "High Rate Etching of Sapphire Wafer Using Cl2BCl3Ar Inductively Coupled Plasmas", MAT. SCI. & ENG.: SOLD STATE MAT, Vol. B82, No. 1-3 2000, pgs 50-52. (ABSTRACT ONLY)	
	E11	Wang, X., et al., "Chemical Polishing of Sapphire for Growth of GaN", CHINESE JOURNAL OF SEMICONDUCTORS, Vol. 18, No. 11, pgs 867-871, 1997. (ABSTRACT ONLY)	
	F11	Lee, J., et al., "Scribing and Cutting a Blue LED Wafer Using a Q-Switched Nd:YAG Laser", APPLIED PHYSICS, Vol. 70, No. 5, pgs 561-564, 2000. (ABSTRACT ONLY)	
	G11	Kalinski, Z., "Preparation of Sapphire Substrates for Gas Phase GaN Epitaxial Processes", KRISTAL UND TECHNIK, Vol. 12, No. 10, pgs 1105-1110, 1977. (ABSTRACT ONLY)	
	H11	Jeong, C., et al., "Sapphire Etching with BCl3/HBr/Ar Plasma", SURFACE & COATINGS TECHNOLOGY, Vol. 171, No. 1-3, 2003, pgs 280-284. (ABSTRACT ONLY)	
	I11	Kalinski, Z., et al., "Structural Etching of Al2O3 Substrate Plates Applied in Gaseous Epitaxy of GaN Layers", ELEKTRONIKA, Vol. 18, No. 3, 1977, pgs 117-119. (ABSTRACT ONLY)	
	J11	Lakew, B., et al., "High Tc Superconducting Bolometer on Chemically Etched 7 Micrometer Thick Sapphire", NASA, 1997, 21 pgs. (ABSTRACT ONLY)	

Examiner	Date
Signature	Considered

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO). to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2006. OMB 0651-0031

	,0/		t or 1995, no persons ar	re required to respond to a collection of information unless it contains a valid OMB control number.  Complete if Known		
TRAD	1449/PTO			Application Number	10/669,141	_
INFO	DRMATIO	N DIS	CLOSURE	Filing Date	09/23/2003	_
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Milan R. Kokta	
	(Use as many st		20000001	Art Unit	1775	_
	(Use as many si	ieets as iie	cessary)	Examiner Name	Stephen J. Stein	_
Sheet	12	of	13	Attorney Docket Number	1075-BI4282	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	A12	Jeong, C., et al., "Dry Etching of Sapphuire Substrate for Device Separation in Chlorine-Based Inductively Coupled Plasmas", MAT. SCI. & ENG.: SOLID STATE MATERIALS, Vol. 93, No. 1-3, pgs 60-63, 2002. (ABSTRACT ONLY)	
	B12	Gu, E., et al., "Micromachining and Dicing of Sapphire, Gallium Nitride and Micro LED Devices with UV Copper Vapour Laser", THIN SOLID FILMS, Vol. 453-454, pgs 462-466, 2000. (ABSTRACT ONLY)	
	C12	Park, H., et al., "A Novel Process for the Generation of Pristine Saphire Surfaces", THIN SOLID FILMS, Vol. 422, No. 1-2, pgs 135-140, 2000. (ABSTRACT ONLY)	
	D12	Fenner, D., et al., "Ion Beam Nanosmoothing of Sapphire and Silicon Carbide Surfaces", SPIE, Vol. 4468, pgs 17-24, 2001. (ABSTRACT ONLY)	
	E12	Blecha, Z., et al., "On Fabrication of Sapphire Substrates (1102) for Epitaxy of Monocrystalline Silicon", JEMNA MECHANIKA A OPTIKA, Vol., 28, No. 12, pgs 249-351, 1983. (ABSTRACT ONLY)	
	F12	Duffy, M., et al., "Optical Characterization of Silicon and Sapphire Surfaces as related to SOS Discrete Device Performance", JOURNAL OF CRYSTAL GROWTH, Vol. 58, No. 1, pgs 19-36, 1982. (ABSTRACT ONLY)	
	G12	Ehman, M., et al., "Mechanical Preparation of Sapphire Single-Crystal Surfaces by Vibratory Techniques", METALLOGRAPHY, Vol. 9, No. 4, pgs 333-339, 1976. (ABSTRACT ONLY)	
	H12	Druminiski, M., et al., "Deposition of Epitaxial Films on Spinel and Sapphire. Influence of Substrate Preparation", SIEMENS FORSCHUNGS - UND ENTWICKLUNGSBERICHTE, Vol. 5, No. 3, pgs 139-145, 1976. (ABSTRACT ONLY)	
	I12	Cullen, G., "The Preparation and Properties of Chemically Vapor Deposited Silicon on Sapphire and Spinel", JOURNAL OF CRYSTAL GROWTH, Vol. 9, pgs 107-125, 1971. (ABSTRACT ONLY)	
	J12	Liu, L., et al., "Substrates for Gallium Nitride Epitaxy", MAT. SCI. & ENG. REPORTS, Vol. R37, No. 3, pgs 61-127, 2000. (ABSTRACT ONLY)	

Examiner	Date		
Signature	Considered	_	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO). to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

NOV 0 4 2005 Approved for use through 07/31/2006. OMB 0651-035 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Experwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Under the

<b>&amp;</b> Substitut	60 form 1449/PTC	)		- "	Complete if Known
HADE				Application Number	10/669,141
INFO	DRMATIO	N DIS	CLOSURE	Filing Date	09/23/2003
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Milan R. Kokta
	// los es men	<b>h</b> aada		Art Unit	1775
	(Use as many s	neets as ne	ecessary)	Examiner Name	Stephen J. Stein
Sheet	13	of	13	Attorney Docket Number	1075-BI4282

	T = 7.	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	A13	Khattak, C., et al., "Production of Sapphire Blanks and Substrates for Blue LEDs and LDs", MAT. RES. SOC. SYMP PROCEEDINGS, V. 743, pgs 219-224, 2002. (ABSTRACT ONLY)	
	B13	Gutsche, H., et al., "Polishing of Sapphire with Colloidal Silica", JOURNAL OF THE ELECTROCHEMICAL SOCIETY, Vol. 125, No. 1, 1978, pgs 136-138, 1978. (ABSTRACT ONLY)	
	C13	Duffy, M., et al., "Semiconductor Measurement Technology: Method to Determine the Quality of Sapphire, (NOTE) Final Report", RCA Labs, 1980, 77 pgs. (ABSTRACT ONLY)	
	D13	Duffy, M., et al, "Method to Determine Qulity of Sapphire, (NOTE) Interim Rept.", RCA Labs, 1975, 88 pgs. (ABSTRACT ONLY)	
	E13	Horie, S., et al., "Precision Grinding of Semiconductor - Related Materials", (JOURNAL) NEW DIAMOND, Vol. 20, No. 2, pgs 8-13, 2004. (ABSTRACT ONLY)	
	F13	Edgar, J., et al., "Substrates for Gallium Nitride Epitaxy", MAT. SCI. & ENG., PART R, Vol. R37, No. 3, pgs 61-127, 2002. (ABSTRACT ONLY)	
	G13	Author Unkown, "Specifications for Polished Monocrystalline Sapphire Substrates" 1996, Affiliation (Issuing Organization) SEMI Semiconductor Equipment & Materials International, USA. (Bibliographic Entry Only).	
	H13	Search Report for Technical Articles (Including various Abstracts of certain Identified References)	
	I13		
	J13		

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.